

STUDENT ID NO									

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

TCC3141 - CLOUD COMPUTING

(All Sections / Groups)

12 OCTOBER 2016 2.30 p.m. – 4.30 p.m. (2 Hours)

INSTRUCTIONS TO STUDENTS

- 1. This Question paper consists of 3 printed pages including cover page with 5 questions only.
- 2. Attempt ALL questions. All questions carry equal marks and the distribution of marks for each question is given.
- 3. Please write all your answers in the Answer Booklet provided.

Question 1 [10Marks]

(a) Cost reduction is one of the business drivers for cloud computing adoption. List TWO (2) types of organizational costs that accounted for, when making decision for cloud adoption.

[2 Marks]

(b) Differentiate between horizontal and vertical scaling in cloud computing environment.

[8 Marks]

Question 2 [10 Marks]

(a) Explain the differences between SaaS, PaaS, and IaaS cloud delivery models with regards to the activities and typical level of control granted to cloud consumer.

[6 Marks]

(b) Identify any FOUR (4) REST (Representational State Transfer) design constraints.

[4 Marks]

Question 3 [10 Marks]

(a) Describe the virtualization attack in cloud computing. Draw a diagram to illustrate this attack. Propose TWO (2) potential solutions to overcome this threat.

[4 Marks]

- (b) State TWO (2) reasons for resource replication in cloud computing environment.

 [2 Marks]
- (c) Explain the hypervisor mechanism used in resource replication.

[4 Marks]

Continued ...

Question 4 [10 Marks]

(a) By using a flow diagram, demonstrate the processes involved in SLA management system in cloud computing environment.

[6 marks]

(b) Describe any TWO (2) examples of resource pools.

[4 Marks]

Question 5 [10 Marks]

(a) What is the purpose of live storage migration program used in storage maintenance window architecture.

[2 Marks]

(b) Describe the Non-Disruptive Service Relocation Architecture. Provide a justification for the needs of this architecture. Use a diagram as example in your description.

[8 Marks]

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